



PTO/SB/08A (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number	6,301,967
Filing Date	Filed herewith
First Named Inventor	Dimitri M. Donskoy, et al.
Art Unit	To be assigned
Examiner Name	To be assigned
Attorney Docket Number	97084-00026

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
KR		US- 3705381	12/5/72	Pipkin	_____
KR		US- 3867836	2/25/75	Sessler, et al.	_____
KR		US- 3898840	8/12/75	McElroy	_____
KR		US- 4233843	11/18/80	Thompson, et al.	_____
KR		US- 4281547	8/4/81	Hinshaw, et al.	_____
KR		US- 4381674	5/3/83	Abts	_____
KR		US- 4445361	5/1/84	Moffett, et al.	_____
KR		US- 4461178	7/24/84	Chamuel	_____
KR		US- 4502329	3/5/85	Fukunaga, et al.	_____
KR		US- 4611492	9/16/86	Koosmann	_____
KR		US- 4689993	9/1/87	Slettemoen	_____
KR		US- 4944185	7/31/90	Clark, Jr., et al.	_____
KR		US- 5024090	6/18/91	Pettigrew, et al.	_____
KR		US- 5144838	9/8/92	Tsuboi	_____
KR		US- 5170666	12/15/92	Larsen	_____
KR		US- 5179860	1/19/93	Tsuboi	_____
KR		US- 5206806	4/27/93	Gerardi, et al.	_____
KR		US- 5214960	6/1/93	Tsuboi	_____
KR		US- 5284058	2/8/94	Jones	_____

FOREIGN PATENT DOCUMENTS

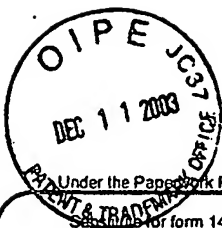
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁴
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

Examiner Signature	Helen Kewick	Date Considered	2/18/05
--------------------	--------------	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08A (08-03)

Approved for use through 07/31/2008. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

See instructions for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2

of 2

Complete if Known

Application Number	6,301,967
Filing Date	Filed herewith
First Named Inventor	Dimitri M. Donskoy , et al.
Art Unit	To be assigned
Examiner Name	To be assigned
Attorney Docket Number	97084-00026

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
KZ		US- 5355731	10/18/94	Dixon, et al.	
KZ		US- 5425272	6/10/95	Rhodes, et al.	
KZ		US- 5456114	10/10/95	Liu, et al.	
KZ		US- 5520052	5/28/96	Pechersky	
KZ		US- 5528924	6/25/96	Wajid, et al.	
KZ		US- 5557969	9/24/96	Jordan	
KZ		US- 5621400	4/15/97	Corbi	
KZ		US- 5650610	7/22/97	Gagnon	
KZ		US- 5736642	4/7/98	Yost, et al.	
KZ		US- 5748091	5/5/98	Kim	
KZ		US- 5823474	10/20/98	Nunnally	
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

Examiner
Signature

Helen Kwok

Date
Considered

2/18/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Complete if Known	
Sheet	1	of	2	Application Number 6,301,967
				Filing Date Filed herewith
				First Named Inventor Dimitri M. Donskoy, et al.
				Art Unit To be assigned
				Examiner Name To be assigned
				Attorney Docket Number 97084-00026

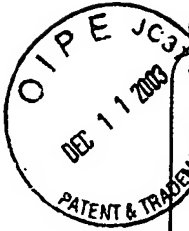
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS				
Examiner Initials ¹	Cite No. ²	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²	
HK		A.S. Korotkov, et al., "Variations of Acoustic Nonlinear Parameters with the Concentration of Defects in Steel", Institute of Applied Sciences, Russian Academy of Sciences, Nizhnii Novgorod, Russia, Acoustic Physics, Vol. 40, No.1, 1994, pp. 71-74		
HK		V. Yu. Zaitsev, et al., "Nonlinear Interaction of Acoustical Waves Due to Cracks and Its Possible Usage for Cracks Detection", Institute of Applied Physics, Russian Academy of Science, Nizhny Novgorod, Russia, Journal of Vibration and Control, 1995, pp. 335-344		
HK		I. Yu. Belyayeva, "Tomography of Elastic Nonlinear Parameters of Rocks in Problems of Seismology and Seismic Prospecting", Institute of Applied Physics, Russian Academy of Sciences, N. Novgorod, Physics of the Solid Earth, Vol. 30, No. 12, July 1995, pp.1064-1071		
HK		A.M. Sutin, et al., "Nonlinear Acoustic Methods of Crack Diagnostics", Institute of Applied Physics, Russian Academy of Sciences, Nizhny Novgorod, Radiophysics and Quantum Electronics, Vol. 38, Nos. 3-4, 1995, pp. 109-120		
HK		Veniamin E. Nazarov, et al., "Nonlinear acoustics of micro-inhomogenous media", Institute of Applied Physics, Academy of Sciences of the USSR, Physics of the Earth and Planetary Interiors, 1998, pp. 65-73		
HK		Korotkov, et al., "Nonlinear Vibro-Acoustic Method for Diagnostics of Cracks in Construction Material, Acoustical Society of America, Vol. 97, No. 5, Pt. 2, May 1995, pp. 3377		
HK		V.V. Kazakov, et al., "Nonlinear Acoustic Method of Pulsing Location of Cracks", Institute of Applied Physics of RAS, Nizhny Novgorod, 1998, pp. 183-186		
HK		Alexander Sutin, "Nonlinear Acoustic Non-Destructive Testing of Cracks", Institute of Applied Physics, Russian Academy of Science, Acoustics in Perspective, 14th Intern. Symp. On Nonlinear Acoustics, China, 1996, pp. 328-333		
HK		O. Buck, et al., "Acoustic harmonic generation at unbonded interfaces and fatigue cracks", Rockwell International Science Center, Thousand Oaks, California, Appl. Phys. Lett. 33 (5), September 1, 1978, pp. 371-373		
HK		Alexander m. Sutin, et al., "Nonlinear Vibro- Acoustic Nondestructive Testing Technique", Eight International Symp. On Nondestructive Characterization of Materials, Boulder, CO, 1997, pp.1-7		
HK		Dimitri M. Donskoy, et al., "A Nonlinear Acoustic Technique for Crack and Corrosion Detection in Reinforced Concrete", Eight Int. Symposium on Nondestructive Characteristics, Boulder, Co, 1997, pp. 1-6		

Examiner Signature	Helen Kwok	Date Considered	2/18/05
--------------------	------------	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	6,301,967
Sheet	2	of	2	Filing Date	Filed herewith
				First Named Inventor	Dimitri M. Donskoy
				Art Unit	To be assigned
				Examiner Name	To be assigned
				Attorney Docket Number	97084-00026

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
KR		Dimtri M. Donskoy, et al., "Vibro-Acoustic Modulation Nondestructive Evaluation Technique", Davidson Laboratory, Stevens Institute of Technology, Hooken, NJ, Journal of Intelligent Material Systems and Structures, Vol. 9, September 1998, pp. 765-771	
KR		A.M. Sutin, et al., "Nonlinear Acoustic Methods for Crack and Fatigue Detection", Safety Diagnostics of Underwater Construction buy Using Acoustics, Seoul, Korea, 1995, pp. 43-45	
KR		A.S. Korotkov, et al., "Modulation of Ultrasound by Vibrations in Metal Constructions with Cracks", Institute of Applied Physics, Russian Academy of Science, Nizhy Novgrood, Russia, Acoustics Letter, Vol. 18, No. 4, 1994, pp. 59-62	
KR		Peter B. Nagy, "Fatigue Damage Assessment by Nonlinear Ultrasonic Materials Characterization", Department of Aerospace Engineering and Engineering Mechanics, University of Cincinnati, OH, Ultrasonics 36, 1998, pp. 375-381	
KR		Peter B. Nagy, et al., "Identification of Distributed Fatigue Cracking by Dynamic Crack-Closure", Progress in Quantative Nondestructive Evaluation, Vol. 14, New York, 1995, pp. 1979-1986	
KR		A. Korotkov, et al., "Nonlinear Vibro-Acoustic Method for Diagnostics of Metal", Advances in Non-Linear Acoustics, World Scientific, 1993, pg. 370-375	

Examiner Signature	Helen Kwok	Date Considered	2/18/05
-----------------------	------------	--------------------	---------

¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.